

INTERNATIONAL SEARCH REPORT

PCT/GB 03/04588

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 178 846 A (BAKER REUBEN C) 7 November 1939 (1939-11-07) column 1, line 31 - line 45; figure 1	1-6, 8, 10, 13-22, 25, 26, 28, 31-36, 38, 39
A	US 3 351 136 A (NELSON FRED B) 7 November 1967 (1967-11-07) column 2, line 16 - line 39	1, 31
A	US 1 959 368 A (BENTON KENNEDYE CHARLES) 22 May 1934 (1934-05-22) the whole document	1, 31

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

13 February 2004

Date of mailing of the international search report

03/03/2004

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2178846	A	07-11-1939	NONE	
US 3351136	A	07-11-1967	NONE	
US 1959368	A	22-05-1934	NONE	